



SEQUENCE LISTING

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<120> Modulation of Gene Expression in Gastrointestinal Inflammation

<130> 216019-33

<140> PCT/US 00/15191

<141> 2000-06-01

<150> 60/137,058

<151> 1999-06-01

<160> 127

<170> PatentIn version 3.1

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<223> Description of Artificial Sequence:synthetic primer: IMX 41R1 gene specific primer

<400> 64
 ttttttttag cgaaagaaca gtg 23

<210> 65
 <211> 20
 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 41R1 nested RACE primer

<400> 65

aacagtgggc ccaggaccgg

20

<210> 66

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 1 5' RT-PCR primer

<400> 66

ccgggaatcc cccttcagtt ctt

23

<210> 67

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 1 3' RT-PCR primer

<400> 67

tttttagagt cggtttgttt tcttcat

27

<210> 68

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 5 5' RT-PCR primer

<400> 68

cggagtcgag tcctgtatca g

21

<210> 69

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 5 3' RT-PCR primer

<400> 69
tcaccagaaa cacgtgcact tta 23

<210> 70
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 7 5' RT-PCR primer

<400> 70
tcagaacgtg gggatgctgt gg 22

<210> 71
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 7 3' RT-PCR primer

<400> 71
gctcagcata gaaggccctc aggtc 25

<210> 72
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 8 5' RT-PCR primer

<400> 72
acagacggca gcagtcccag c 21

<210> 73
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 8 3' RT-PCR primer

<400> 73
ttcgtgagga agggctcatg c 21

<210> 74
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 11 5' RT
-PCR primer

<400> 74
ccggtgaagt gcatcttctg c 21

<210> 75
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 11 3' RT
-PCR primer

<400> 75
tttttctact tagtggggca cc 22

<210> 76
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 13 5' RT
-PCR primer

<400> 76
gactgccctc cctcacaaca actggt 26

<210> 77
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 13 3' RT
-PCR primer

<400> 77
cagagctggg ttcacggtga tgggc 25

<210> 78
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 14 5' RT
-PCR primer

<400> 78
ccggagcgag gagagtagca ctct 24

<210> 79
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 14 3' RT
-PCR primer

<400> 79
ttctccatgg atgacccccc tca 23

<210> 80
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 16 5' RT
-PCR primer

<400> 80
ggtgaagtgc atcttctgcg tgt 23

<210> 81
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 16 3' RT
-PCR primer

<400> 81
tttttcttta ttctacttag tggggcac 28

<210> 82
<211> 23

<212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 17 5' RT
 -PCR primer

<400> 82
 cggacactga gctcaccac aga 23

<210> 83
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 17 3' RT
 -PCR primer

<400> 83
 ccatagcctg cacagtttcc tccacta 27

<210> 84
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 18 5' RT
 -PCR primer

<400> 84
 ctgcaaaggg gcgtcggaca a 21

<210> 85
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 18 3' RT
 -PCR primer

<400> 85
 caaacggtca cggtcagggt tgt 23

<210> 86
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 19 5' RT
-PCR primer

<400> 86

ccctgctgct tcctaactta ttgcct 26

<210> 87

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 19 3' RT
-PCR primer

<400> 87

ctggcaggcc gaaaccctag tttatt 26

<210> 88

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 20 5' RT
-PCR primer

<400> 88

ccgggtgcag caggggctat ggc 23

<210> 89

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 20 3' RT
-PCR primer

<400> 89

aatagagact cttagtgggtt atcaagaact gg 32

<210> 90

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 21A 5' R
T-PCR primer

<400> 90
 cctcacccta tgcctttat ttaca 25

<210> 91
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:synthetic primer: IMX 21A 3' R
 T-PCR primer

<400> 91
 cacaattgcc acaagaagac taa 23

<210> 92
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:synthetic primer: IMX 22 5' RT
 -PCR primer

<400> 92
 catcaaaaca ctggaagcca tggtag 26

<210> 93
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:synthetic primer: IMX 22 3' RT
 -PCR primer

<400> 93
 ctagccagga ggagagtttc atatgaga 28

<210> 94
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:synthetic primer: IMX 23 5' RT
 -PCR primer

<400> 94
 gtgagccgag attgcagtac tgt 23

<210> 95
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 23 3' RT
-PCR primer

<400> 95
atgttggtcca gtctgggtctc aag 23

<210> 96
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 24 5' RT
-PCR primer

<400> 96
cccagctcaa cgacttcctc cag 23

<210> 97
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 24 3' RT
-PCR primer

<400> 97
tgttcatgaa agcggacaca gcagt 25

<210> 98
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 25 5' RT
-PCR primer

<400> 98
actgtaatca ggtggcgctt gggttc 25

<210> 99

<211> 28
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 25 3' RT
-PCR primer

<400> 99
acctgaattt tcagcataca agggtcac 28

<210> 100
<211> 23
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 26 5' RT
-PCR primer

<400> 100
tgcagcagtt acttccactc aag 23

<210> 101
<211> 23
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 26 3' RT
-PCR primer

<400> 101
aactgaaagc aggattcctc aat 23

<210> 102
<211> 23
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 29 5' RT
-PCR primer

<400> 102
ggttaccttg gccgtgagga cac 23

<210> 103
<211> 27
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 29 3' RT
-PCR primer

<400> 103

ctctgaactg agaaatgcaa ggagacc 27

<210> 104

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 34 5' RT
-PCR primer

<400> 104

ccagcgcttc gcaatgctat cgc 23

<210> 105

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 34 3' RT
-PCR primer

<400> 105

cgacatctgg ttctacttc agggcc 26

<210> 106

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 35 5' RT
-PCR primer

<400> 106

cggccaccat ctttgtacat gtgt 24

<210> 107

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 35 3' RT

-PCR primer

<400> 107
 ggtccaagat aatcctatattt aggctaccaa 30

<210> 108
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:synthetic primer: IMX 36 5' RT
 -PCR primer

<400> 108
 agagctcatc cagaagggga agga 24

<210> 109
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:synthetic primer: IMX 36 3' RT
 -PCR primer

<400> 109
 atggtattgg tgattatgtc gccggt 26

<210> 110
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:synthetic primer: IMX 37 5' RT
 -PCR primer

<400> 110
 ccggactaca accacgacca 20

<210> 111
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:synthetic primer: IMX 37 3' RT
 -PCR primer

<400> 111

ttttgtgttc ttgtagttga aataca 26

<210> 112

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 38 5' RT
-PCR primer

<400> 112

ccggtgtgga ccatcgagtc a 21

<210> 113

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 38 3' RT
-PCR primer

<400> 113

aagccctaga gagtttatta caaa 24

<210> 114

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 45 5' RT
-PCR primer

<400> 114

gcggcggcgt tattcccatg atg 23

<210> 115

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 45 3' RT
-PCR primer

<400> 115

ggtgctcgct ttatTTTTTca tgtgcaa 27

<210> 116
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 46 5' RT
-PCR primer

<400> 116
ccggcgggac gtcagggtct aca 23

<210> 117
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 46 3' RT
-PCR primer

<400> 117
gttcccaggc aaccctccct cga 23

<210> 118
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 47 5' RT
-PCR primer

<400> 118
ccggccagta cgaaaaggac ttc 23

<210> 119
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 47 3' RT
-PCR primer

<400> 119
tagatccata aggctttagt tcc 23

<210> 120
<211> 23
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 48 5' RT
-PCR primer

<400> 120

ccggccttaa ggttcctctg aca

23

<210> 121

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 48 3' RT
-PCR primer

<400> 121

ggtaggcagc ctgagttgca gttac

25

<210> 122

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 50 5' RT
-PCR primer

<400> 122

catggtcatc actggtctgt ctg

23

<210> 123

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 50 3' RT
-PCR primer

<400> 123

cctagaggca tcccagagat agct

24

<210> 124

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthetic primer: IMX 54 5' RT
-PCR primer

<400> 124
ctgccctgag accaccatgc tgt 23

<210> 125
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 54 3' RT
-PCR primer

<400> 125
gggctacatg tccaaggtgg cttctt 26

<210> 126
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 58 5' RT
-PCR primer

<400> 126
ggcagctata gtctggcacc aa 22

<210> 127
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:synthetic primer: IMX 58 3' RT
-PCR primer

<400> 127
agttctgcag caaagacatg agag 24